

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A cooled mirror device, comprising a main mirror body and a mirror cover rigidly connected to the main mirror body, wherein at least one of the main mirror body and the mirror cover have a cooling device, wherein the mirror cover is made from an aluminum material, and is coated with a reflection-enhancing material to form a reflection-enhancing mirror surface, and an adjusting plate, removably connected to the main mirror body, is provided for fixing the mirror device on a carrier unit.

Claim 2 (original): A device according to claim 1 wherein the main mirror body is made from the aluminum material.

Claim 3 (original): A device according to claim 1 wherein the cooling device is a fluid cooling device comprising a spiral fluid duct in the mirror cover.

Claim 4 (original): A device according to claim 3 wherein the fluid duct in the mirror cover is open in a direction towards an internal flat side of the main mirror body, and is closed in a connected condition of the main mirror body and the mirror cover by the flat side, wherein the fluid duct has a nickel-plating.

Claim 5 (original): A device according to claim 4 wherein the nickel-plating extends substantially over the entire internal flat side of the main mirror body.

Claim 6 (original): A device according to claim 4 wherein the nickel-plating is of a thickness of between 10 and 100 micrometers.

Claim 7 (original): A device according to claim 3 wherein the fluid duct is adapted to be charged with cooling fluid by nickel-plated structures formed in the main mirror body.

Claim 8 (original): A device according to claim 1 wherein the reflection enhancing mirror surface comprises copper.

Claim 9 (original): A device according to claim 8 wherein the reflection-enhancing mirror surface comprises an electrolytic copper layer of a thickness of between 0.1 and 1.0 mm.

Claim 10 (original): A device according to claim 8, wherein the reflection-enhancing mirror surface comprises an electrolytic copper layer of a thickness of between 0.1 and 0.5 mm.

Claim 11 (original): A device according to claim 9 wherein the reflection-enhancing mirror surface is formed after assembly of the main mirror body and the mirror cover.

Claim 12 (currently amended): A device according to claim ~~4~~ 18 wherein an adjusting plate, removably connected to the main mirror body, is provided for fixing the mirror device on a carrier unit.

Claim 13 (currently amended): A device according to claim ~~12~~ 1 wherein the main mirror body has a flange portion which is in the form of an adjusting plate for fixing the mirror device on the carrier unit.

Claim 14 (original): A device according to claim 13 wherein the cooling device is provided in the main mirror body.

Claim 15 (original): A device according to claim 1 further including, in combination, a laser system with a wavelength in the range between 10 and 11 micrometers.

Claim 16 (original): A device according to claim 1 further including, in combination, a laser system with a wavelength in the range of 10.6 micrometers.

Claim 17 (original): A device according to claim 1 in combination with one of a beam deflection unit of a laser system and a laser focusing head.

Claim 18 (currently amended): A cooled mirror device, comprising a main mirror body and a mirror cover rigidly connected to the main mirror body, wherein one of the main mirror body and the mirror cover ~~have~~ has a cooling device comprising a ~~spiral~~ fluid duct in the mirror cover, wherein the ~~fluid duct has a~~ cooled mirror ~~coating of an electrochemically neutral material~~ is in combination with one of a beam deflection unit of a laser system and a laser focusing head.

Claim 19 (currently amended): A device according to claim 18, wherein the ~~coating is a nickel plating~~ fluid duct is coated with an electrochemically neutral material.